

# TX-SR501

6.1-CHANNEL A/V SURROUND HOME THEATER RECEIVER

**ONKYO**  
IMAGINATIVE SIGHT & SOUND



Available in Gold or Black

## The Fully-Equipped 6.1-Channel Receiver for Your Entry Into the World of Home Theater

Onkyo has redefined how you will forever look at an entry level home theater receiver with the TX-SR501. Those new to home theater will breathe a sigh of relief due to the user-friendly design which incorporates color-coded inputs and outputs, a logically laid-out front panel and an easy-to-use remote control. Those looking to upgrade their current home theater receiver will be impressed with 6.1-channels giving you the all enveloping surround sound of Dolby Digital EX and DTS-ES combined with Onkyo exclusives like WRAT (Wide Range Amplifier Technology) and CinemaFILTER to yield the smoothest sound at any volume.

### 6.1-Channel Format Capability

Step up to the world of truly 360° home theater with Dolby Digital EX and DTS-ES decoding. Dolby Digital EX creates six-full-bandwidth output channels from 5.1-channel sources. DTS-ES offers the world's only discrete 6.1-channel extended surround technology for home theater. Both give a more spacious listening zone to bring your movies to unprecedented levels of realism.

### High Current Power Supply (H.C.P.S.) Transformer

Your receiver is the center of your home theater system and now you will find the High Current Power Supply (H.C.P.S.) transformer at the heart of our receivers. This redesigned transformer will give you the sonic muscle you need to drive today's multichannel digital sources, and reproduce soundtracks with crystal-clear realism and seat-riveting impact.

### HDTV Capable Component Video Inputs and Output

The future of home entertainment is high-definition and the TX-SR501 is ready to give you the highest quality, unaltered, wide-bandwidth video transfer from a DVD player, DSS, HDTV set-up box, or digital VCR and out to HDTVs, additional monitors, or projectors.

### Crossover Adjustment for Bass Management

Previously crossover frequency was fixed at 80 Hz. With Crossover Adjustment, you can set the frequency at 60/80/100/120 or 150 Hz depending on your speaker's bass playback ability. This lets you more accurately match the performance characteristics of the subwoofer to your front speakers.

### Absolute Ground Plate and Bus Bars

Formerly only found in our higher range of receivers, the Absolute Ground Plate and bus bars diminish fluctuations in the electrical potential and eliminate ground hum for more efficient power distribution, reduced noise, and crisper sound.

### Color-Coded Inputs and Outputs

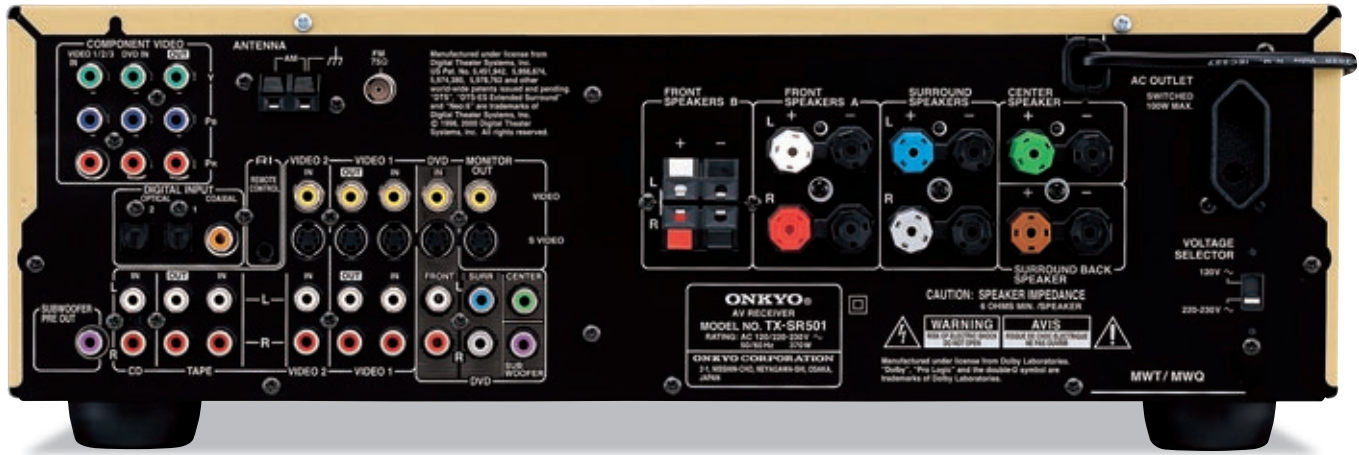
Onkyo's commitment to bringing the most user-friendly designed products to market further manifests itself with color-coded inputs and outputs. Now you'll no longer have worries about which cable goes to which input or output. Simply attach the color-coded label to the appropriate cable, and attach the cable to the same colored input or output for fast and easy connection.



Black model

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6.1-CHANNEL A/V SURROUND HOME THEATER RECEIVER



## Amplifier Features

- 115 Watts per channel min. into 6 ohms, 1 kHz, JEITA
- Wide Range Amplifier Technology (WRAT)
- Extended Frequency Response (10 Hz to 100 kHz)
- Full bandwidth power to all 6 main channels
- High-current, low-impedance 6 ohm drive for all six channels
- Absolute Ground Plate
- H.C.P.S.—Massive high power transformer
- Oversized electrolytic capacitors
- Fully discrete output stages for all six channels
- Large high-grade aluminum heat sink
- Auto-protection circuitry

## Audio/Video Features

- DTS, DTS-ES Discrete/Matrix 6.1, DTS Neo:6
- Dolby Digital, Dolby Digital EX, Dolby Pro Logic II decoding
- State-of-the-art linear PCM 96kHz/24-bit DACs for all channels
- Optimum Gain Volume Control circuitry
- Advanced 24-bit DSP chip
- 9 DSP soundfields
- Late night mode (high, low, off)
- Non-scaling configuration
- A-Form Listening Mode Memory
- "Easy-set" speaker configuration
- CinemaFILTER
- Crossover Adjustment (60/80/100/120/150 Hz) for bass management
- "Double Bass" function
- A/B speaker drive
- Tone control (bass/treble) for front L/R speakers
- Automatic signal detection
- 5.1 Multi-channel color-coded inputs for DVD-Audio and Super Audio CD
- 3 Digital inputs (1 coaxial, 2 optical; 3 assignable)
- 4 S-Video inputs and 2 outputs

- 2 Component video inputs and 1 output
- 4 A/V inputs
- 2 Audio inputs
- Front panel Audio/Video, S-Video inputs
- Dedicated line-level subwoofer pre out
- Full input/output cassette and VCR loops
- 6 Sets of heavy-duty multiway speaker binding posts (dual banana-plug compatible) (except SP-B)

## FM/AM Tuner Features

- Outstanding selectivity and sensitivity
- 30 FM/AM random presets
- FM auto scan tuning
- Red FM stereo indicator
- 75-ohm antenna input
- FM indoor antenna supplied
- AM loop antenna supplied

## Other Performance Features

- Precision digital speed-sensitive volume control
- Absolute volume display
- Separate PC (printed circuit) boards for audio and video sources
- 35-segment fluorescent dot-matrix display
- 3-Mode display dimmer (bright, normal, low)
- Individual input selectors for each source
- Headphone jack (standard size)
- Audio mute (via remote)
- Sleep timer (via remote)
- Battery-free memory backup
- 1 Switched AC convenience outlet with a total 100 Watts max
- Heavy-duty power cord
- Large non-resonant feet
- Heavy-gauge, anti-resonant, reinforced steel chassis
- Vibration-resistant cover
- Brushed aluminum front panel
- Full-function RI Remote



Full-function RI Remote

## SPECIFICATIONS

### AMPLIFIER SECTION

<b>Power Output</b>	
Front L/R.....	115 W + 115 W (6 $\Omega$ , 1 kHz, JEITA)
Center.....	115 W (6 $\Omega$ , 1 kHz, JEITA)
Surround L/R.....	115 W + 115 W (6 $\Omega$ , 1 kHz, JEITA)
Surround Back.....	115 W (6 $\Omega$ , 1 kHz, JEITA)
<b>Dynamic Power</b> .....	160 W + 160 W (3 $\Omega$ , Front) 125 W + 125 W (4 $\Omega$ , Front) 85 W + 85 W (8 $\Omega$ , Front)
<b>THD (Total Harmonic Distortion)</b> .....	0.08 % (Rated Power)
<b>Damping Factor</b> .....	60 (Front, 1 kHz, 8 $\Omega$ )
<b>Input Sensitivity and Impedance</b>	
Line.....	200 mV/47 k $\Omega$ (CD, Tape, etc.)
Multichannel.....	200 mV/47 k $\Omega$ (DVD, except for Subwoofer)
Digital Input Coaxial.....	36 mV/47 k $\Omega$ (DVD, Subwoofer)
Digital Input Coaxial.....	0.5 Vp-p/75 $\Omega$
<b>Output Level and Impedance</b>	
Rec out.....	200 mV/470 $\Omega$ (Tape, Video 1)
Pre out.....	1.0 V/470 $\Omega$ (Subwoofer)
<b>Frequency Response</b> .....	10 Hz-100 kHz + 1 dB, -3 dB (Direct mode)
<b>Tone Control</b> .....	$\pm$ 10 dB, 20 Hz (BASS) $\pm$ 10 dB, 20 kHz (TREBLE)
<b>Signal-to-Noise Ratio</b> .....	100 dB (Line in, IHF-A)
<b>Speaker Impedance</b> .....	6 $\Omega$ -16 $\Omega$

### VIDEO SECTION

<b>Input Sensitivity/Output Level and Impedance</b>	
Video.....	1.0 Vp-p/75 $\Omega$ (Component and S-Video Y)
	0.7 Vp-p/75 $\Omega$ (Component Pb/Cs, Pr/Cr)
	0.28 Vp-p/75 $\Omega$ (S-Video C)
	1.0 Vp-p/75 $\Omega$ (Composite)
<b>Component Video Frequency Response</b> ..	DC-50 MHz

### TUNER SECTION

<b>[FM]</b>	
<b>Tuning Frequency Range</b> .....	87.50 MHz-108.00 MHz
<b>Usable Sensitivity</b>	
FM Stereo.....	17.2 dBf, 2.0 $\mu$ V (75 $\Omega$ IHF)
FM Mono.....	11.2 dBf, 1.0 $\mu$ V (75 $\Omega$ IHF)
<b>Signal-to-Noise Ratio</b>	
FM Stereo.....	70 dB (IHF-A)
FM Mono.....	76 dB (IHF-A)
<b>Total Harmonic Distortion</b>	
FM Stereo.....	0.3 %
FM Mono.....	0.2 %
<b>FM Stereo Separation</b> .....	
	45 dB at 1 kHz, 30 dB at 100 Hz-10 kHz
<b>[AM]</b>	
<b>Tuning Frequency Range</b> .....	531 kHz-1,602 kHz/530 kHz-1,710 kHz
<b>Usable Sensitivity</b>	
AM.....	30 $\mu$ V
<b>Signal-to-Noise Ratio</b>	
AM.....	40 dB
<b>Total Harmonic Distortion</b>	
AM.....	0.7 %

### GENERAL

<b>Power Supply</b> .....	AC 120/220-230 V, 50/60 Hz
<b>Power Consumption</b> .....	450 W
<b>Stand-by Power Consumption</b> .....	2 W
<b>Dimensions (W x H x D)</b> .....	435 x 150 x 376 mm
<b>Weight</b> .....	9.9 kg

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